

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

- 1 1. (Currently amended): A security apparatus for a wireless LAN supporting
2 segregation of network traffic among a plurality of end stations, comprising:
3 ~~a plurality of end stations; and~~
4 a Public Access Point (PAP) component for providing a plurality of virtual Basic
5 Service Sets (BSSs) , said PAP component configured to allow any one end station among said
6 end stations to cause creation of a virtual BSS from within a single physical access point (AP);
7 wherein any number of said end stations can belong to a said virtual BSS;
8 wherein said PAP appears to said end stations as multiple physical access points,
9 one ~~AP~~ access point for each of said virtual BSSs.
- 1 2. (Original): The apparatus of Claim 1, said PAP provisioning a plurality of
2 separate LAN segments while providing separate link privacy and integrity for each of said LAN
3 segments.
3. (Canceled)
- 1 4. (Original): The apparatus of Claim 1, further comprising:
2 a plurality of PAPs; and
3 a location-update protocol for updating forwarding tables of bridges that connect
4 said PAPs together.
- 1 5. (Currently amended): The apparatus of Claim 1, further comprising:
2 a finebridging method for limiting communications between ~~[[all]]~~said end
3 stations that belong to ~~[[a]]~~said virtual BSS.

1 6. (Currently amended): A security apparatus for a wireless LAN supporting
2 segregation of network traffic among a plurality of 802.11 end stations, comprising:
3 ~~a plurality of 802.11 end stations;~~
4 a Public Access Point (PAP) component configured to:, ~~said PAP comprising~~
5 receive an association request from any one of said 802.11 end stations;
6 and
7 in response to receiving said association request, creating a personal
8 virtual bridged LAN (PVLAN) instantiated into a virtual 802.11 Basic Service Set (BSS),
9 wherein said personal virtual bridged LAN (PVLAN) is instantiated from
10 within a single physical access point (AP).

1 7. (Currently amended): A method for a secure wireless network to support
2 segregation of network traffic among a plurality of stations, each of said stations having a
3 hardware (MAC) address, comprising:
4 creating a virtual 802.11 Basic Service Set (virtual BSS) for a subset of said
5 stations, wherein the step of creating can be initiated by any station in said subset;
6 ~~a plurality of stations, each of said stations having a hardware (MAC) address;~~
7 ~~all said wherein~~ stations in said subset belong to said virtual BSS sharing and
8 share a group security association[[: and]].
9 ~~one of said stations in said virtual BSS comprising a public access point (PAP).~~

1 8. (Currently amended): The ~~network method~~ of Claim 7, said group
2 security association of each station comprising:
3 an encryption key and an authentication code key.

1 9. (Currently amended): The ~~network method~~ of Claim 7, wherein ~~exactly at~~
2 least one of said stations in said virtual BSS is a public access point (PAP) ~~for bridging an 802.11~~
3 ~~Wireless Medium (WM) and an 802.11 Distribution System Medium (DSM).~~